(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 12 May 2005 (12.05.2005)

PCT

(10) International Publication Number WO 2005/043911 A1

(51) International Patent Classification7:

H04N 7/173

(21) International Application Number:

PCT/KR2004/002817

(22) International Filing Date:

3 November 2004 (03.11.2004)

(25) Filing Language:

Korean

(26) Publication Language:

English

(30) Priority Data: 10-2003-0077604

> 4 November 2003 (04.11.2003) KR

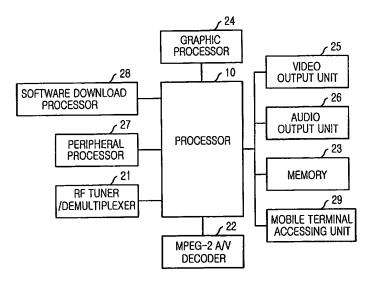
- (71) Applicant (for all designated States except US): ELEC-TRONICS AND TELECOMMUNICATIONS RE-SEARCH INSTITUTE [KR/KR]; 161, Gajeong-dong, Yuseong-gu, Daejon 305-350 (KR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): KIM, Sung-Hoon [KR/KR]; #203-304 Galma Apt., Galma-dong, Seo-gu, Daejon 302-755 (KR). BANG, Gun [KR/KR]; #205, 119-4, Sinseong-dong, Yuseong-gu, Daejon 305-804

(KR). KIM, Seung-Won [KR/KR]; #109-1804 Narae Apt., Jeonnim-dong, Yuseong-gu, Daejon 305-729 (KR). CHOI, Jin-Soo [KR/KR]; #402, 301-6, Jangdae-dong, Yuseong-gu, Daejon 305-308 (KR). LEE, Soo-In [KR/KR]; #106-606 Clover Apt., Dunsan-dong, Seo-gu, Daejon 302-120 (KR). KIM, Jin-Woong [KR/KR]; #305-1603 Expo Apt., Jeonmin-dong, Yuseong-gu, Daejon 305-761 (KR).

- (74) Agent: SHINSUNG PATENT FIRM; 2F, Line Bldg., 823-30, Yeoksam-dong, Kangnam-ku, Seoul 135-080 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: APPARATUS AND METHOD FOR RECEIVING DATA BROADCASTING SERVICE TO SUPPORT CONNECTION WITH MOBILE NETWORKS



(57) Abstract: Provided are a data broadcast receiving apparatus that can be easily connected with mobile communication terminals of diverse access specifications by easily upgrading middleware or plug-in software in digital broadcast mobile and fixed receiving environments, and a method thereof. The data broadcast receiving apparatus includes a demultiplexer for separating signals transmitted from the outside into signals of a kind; a controller for controlling elements of the data broadcast receiving apparatus, receiving and outputting contents separated in the demultiplexer; a download processor for receiving downloadable data divided in the demultiplexer, determining the kind of the downloadable data, and performing upgrade by downloading the downloadable data; and a mobile terminal accessing unit for accessing to a mobile communication network based on the downloadable data.



WO 2005/043911 A1



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.